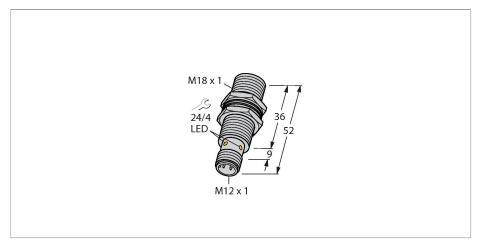


BI10U-MT18-VP6X-H1141 Inductive Sensor





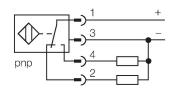
Technical data

D 16 General data	644855
General data	
Rated switching distance 10	0 mm
Mounting conditions FI	lush
Secured operating distance ≤	(0.81 × Sn) mm
Repeat accuracy ≤	2 % of full scale
Hysteresis 3.	15 %
Electrical data	
Operating voltage U _B 10	030 VDC
Ripple U _{ss} ≤	10 % U _{Bmax}
OC rated operating current I₀ ≤	200 mA
lo-load current ≤	25 mA
Residual current ≤	0.1 mA
solation test voltage 0.	.5 kV
Short-circuit protection ye	es/Cyclic
/oltage drop at I₀ ≤	1.8 V
Vire break/reverse polarity protection ye	es/Complete
Output function 4-	-wire, Complementary contact, PNP
OC field stability 30	00 mT
C field stability 30	00 mT _{ss}
Switching frequency 1.	.5 kHz
Nechanical data	
Design TI	hreaded barrel, M18 x 1
Dimensions 52	2 mm
lousing material M	Metal, CuZn, PTFE-coated
active area material Pl	Plastic, LCP, PTFE-coated

Features

- ■Threaded barrel, M18 x 1
- ■Brass, PTFE-coated
- Factor 1 for all metals
- ■Protection class IP68
- Resistant to magnetic fields
- Large switching distance
- ■DC 4-wire, 10...30 VDC
- Changeover contact, PNP output
- ■M12 x 1 male connector

Wiring diagram





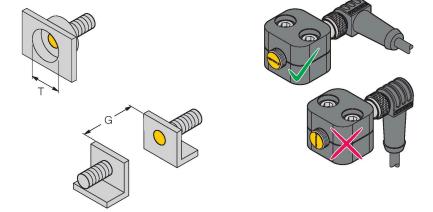
Functional principle

Inductive sensors are designed for wear-free and contactless detection of metal objects. uprox3 sensors have significant advantages due to their patented multi-coil system. They excel thanks to their optimum switching distances, maximum flexibility and operational reliability as well as efficient standardization.

Max. tightening torque of housing nut	10 Nm
Electrical connection	Connector, M12 × 1
Environmental conditions	
Ambient temperature	-25+70 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	LED, Yellow

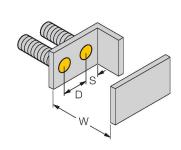
Mounting instructions

Mounting instructions/Description

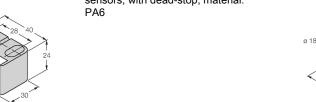


Distance D	36 mm
Distance W	3 x Sn
Distance T	3 x B
Distance S	1.5 x B
Distance G	6 x Sn
Diameter active area B	Ø 18 mm

When installing the sensor in combination with the illustrated half-shell-clamp, observe its correct alignment towards the clamp. For this, see the uprox-lettering on the front cap of the sensor and the adjacent installation drawing.



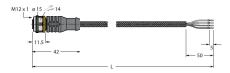
Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene



Accessories

 Dimension drawing
 Type
 ID

 RKC4.4T-2/TXL1001
 6628825
 Con



Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, protective jacket material: aramid fibers, yellow; temperature peak: 200 °C